

Datasheet: MCA4760

BATCH NUMBER 160404

Description:	MOUSE ANTI TROPOMODULIN 1 (N-TERMINAL)
Specificity:	TROPOMODULIN 1 (N-TERMINAL)
Other names:	ERYTHROCYTE TROPOMODULIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TRM-17 (Mab17)
Isotype:	IgG1
Quantity:	0.25 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			
Functional Assays (1)	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) **Removal of sodium azide is recommended prior to use in functional assays. Bio-Rad recommend [EQU003](#) for this purpose.**

Target Species

Chicken

Species Cross Reactivity

Reacts with: Birds, Mammals

Based on sequence similarity, is expected to react with: Fish, Insect, Reptile

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for

further information.

Product Form	Purified IgG - liquid
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Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
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Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.05% Sodium Azide (NaN ₃)
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Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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Immunogen	Recombinant chicken tropomodulin 1
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RRID	AB_1898203
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Specificity	<p>Mouse anti Tropomodulin 1 (N-Terminal) antibody, clone TRM-17 recognizes chicken tropomodulin 1, otherwise known as erythrocyte tropomodulin or E-Tmod, an evolutionary very highly conserved cytoskeletal protein .</p> <p>Tropomodulin 1 is a sarcomeric protein highly expressed by erythrocytes, heart and skeletal muscle, which binds to and caps pointed ends of actin filaments to prevent thin filament elongation. The binding of the N-terminal region of Tmod1 with the actin-binding protein tropomyosin blocks the elongation and depolymerization of actin filaments, contributing to the geometry of the membrane skeleton.</p> <p>Mouse anti Tropomodulin 1 (N-Terminal) antibody, clone TRM-17 recognizes an epitope between amino acid residues 6-57 within the N-terminal (NT) region of tropomodulin 1 and inhibits the binding of Tmod1 to tropomyosin.</p>
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Western Blotting	MCA4760 detects a band of approximately 40kDa in chick heart lysates.
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References	<ol style="list-style-type: none">1. Mudry, R.E. <i>et al.</i> (2003) The interaction of tropomodulin with tropomyosin stabilizes thin filaments in cardiac myocytes. J Cell Biol. 162 (6): 1057-68.2. Almenar-Queralt, A. <i>et al.</i> (1999) Identification of a novel tropomodulin isoform, skeletal tropomodulin, that caps actin filament pointed ends in fast skeletal muscle J Biol Chem 274: 28466-75
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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA4760>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M367995:200529'

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